SIDRA 5.19 Isolated Signalized Analysis Checklist

Open SIDRA 5.19.
Click on the *New* button.
Click on the Traffic Signal icon and select Control = Pretimed, Geometry = At-Grade Intersection, Signal Coordination = None and Major Road/Freeway = None.
SIDRA sends you to RIDES (input manager.)
Select Basic Parameters
       Enter the general information.
       Enter HV Data Option = P.
       Enter Cycle Time = P.
       Enter Cycle Time Increment (normally 10.)
       Enter maximum cycle time (normally 180-240.)
       Enter Intergreen Time = 5, hit F3.
Select Intersection
       Set up Intersection Geometry.
       Enter Percent Heavy Vehicles (divide the statewide percentages by two.)
       Enter lane width = 12, hit F3.
Select Approaches and for each approach,
       Enter Approach name.
       Enter No. of approach lanes.
       Enter No. of adjacent exit lanes.
       Enter Median width or N if no median.
       Enter Downstream short lane or N if not applicable.
       Enter Percent Heavy Vehicles (if value different from Intersection value.)
       Enter Approach grade = 0.
       Enter Arrival type = 3, hit F3.
Select Lanes and for each approach,
       Enter Lane type (normally 1.)
       Enter Discip., hit F3.
Select Volumes and for each approach, enter Total Vehicle Volume, hit F3.
Under Extra Data, select Movement Description and for each approach, enter Mov. No. (should correspond to NEMA phasing, see next page), hit F3.
Return to Edit, select Phasing & Priorities and for each approach,
       Enter phases.
       Enter phase sequence data, hit F3.
Select Opposing Movements and for each approach, check Appr. And Turns, hit F3.
Select Cycle Time
       Enter Lower Limit.
       Enter Upper Limit.
       Enter Increment (normally 10), hit F3.
Select Save
Select Exit (Runs program.)
If no errors, click *OK* and print reports S4, S7 and S15.
If errors, click *OK* and SIDRA will list the errors. Go back into RIDES to correct errors and rerun program.

SIDRA 5.19 Stop Sign Checklist

Open SIDRA 5.19.
Click on the *New* button, name file.
Click on the Stop Sign icon and select Control and Major Road.
SIDRA sends you to RIDES (input manager.)
Select Basic Parameters
 Enter the general information.
 Enter HV Data Option = P, Hit F3.
Select Intersection
 Set up Intersection Geometry.
 Enter Percent Heavy Vehicles (divide the statewide percentages by two.)
 Enter lane width = 12, hit F3.
Select Approaches and for each approach,
 Enter Approach name.
 Enter No. of approach lanes.
 Enter No. of adjacent exit lanes.
 Enter Median width or N if no median.
 Enter Percent Heavy Vehicles (if value different from Intersection value.)
 Enter Approach grade = 0, hit F3.
Select Lanes and for each approach,
 Enter Lane type (normally 1.)
 Enter Discip., hit F3.
Select Volumes and for each approach, enter Total Vehicle Volume, hit F3.
Select Priorities and for each approach, check opposed and unopposed movements, hit F3.
Select Opposing Turns and for each approach, check Appr. And Turns, hit F3.
Select Save
Select Exit (Runs program.)
If no errors, click *OK* and print reports S7 and S15.
If errors, click *OK* and SIDRA will list the errors. Go back into RIDES to correct errors and rerun program.

SIDRA 5.19 Roundabout Checklist

Open SIDRA 5.19.
Click on the *New* button, name file.
Click on the Roundabout icon.
SIDRA sends you to RIDES (input manager.)
Select Basic Parameters
        Enter the general information.
        Enter HV Data Option = P, Hit F3.
Select Intersection
        Set up Intersection Geometry.
        Enter No. of approach lanes.
        Enter Percent Heavy Vehicles (divide the statewide percentages by two.)
        Enter lane width = 13, hit F3.
Select Roundabout
        Enter Island diameter.
        Enter Circ. Road width (16 for one lane, 30 for two lanes), hit F3.
Select Approaches and for each approach,
        Enter Approach name.
        Enter No. of approach lanes (if value different from Intersection value.)
        Enter No. of adjacent exit lanes.
        Enter Percent Heavy Vehicles (if value different from Intersection value.)
        Enter Approach grade = 0, hit F3.
Select Lanes and for each approach,
        Enter Lane type (normally 1.)
        Enter Discip., hit F3.
Select Volumes and for each approach, enter Total vehicle volume, hit F3.
If necessary, select Priorities and change priority for continuous movements (normally none), hit F3.
Select Save
Select Exit (Runs program.)
If no errors, click *OK* and print reports S7 and S15.
If errors, click *OK* and SIDRA will list the errors. Go back into RIDES to correct errors and rerun program.